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700

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The American Bank Stock Co.
OFFICE AND WAREHOUSE
22 CLAY STREET, S. F.

Price 5 Cents

1898 /

Oct 30-

Started at 3:10 P.M. against a strong S.W. wind. Outside the wind ~~for~~, Remained near the ~~fallows~~ ^{10:12 P.M.} all night.

31- Good N.W. wind at 2.00 A.M. Got sick at midnight remained so all day. Made about 8 knots. Leak in middlemast prevented use of main sail.

November

- 1- Got on my sea-legs. Wind favorable, made about 6 knots with the forecast. A black-footed albatross has followed us for two days.
- 2- At 8:30 A.M. a Burrowing Owl came on board & perched on the bowsprit. Captain climbed

out to catch it but it flew
away westward. Wind
changed to light, made
about 2 knots. Remained
about 100 mi off shore + latitude
of San Clemente. Five gnomes
stayed with the ship all day.
Several young *Pluvialis* for
a while appeared at night. A
few more fish + a noble
one seen.

3. A horned Lark ^{or Pigeon} came near
this morning. Wind light
from the north. A fulmar
followed us in the morning.

4. Wind light westerly, at daybreak
reached north east of Guadalupe
Island. Wind very light, calmed
all day before reaching south end.
Gnomes left us at N. end of
Island. One sea bird seen

3 Guadalupe



about the island. A gull + a cormorant, both
very magnificent + wild in fig.
A few small cooters observed +
a large number of ants at N. end +
on extreme summit. Sailed
one large *Salpa* + several strings

of Salpa like forms. Strings
were very abundant of all
lengths from 6 in - 4 ft.

5. Went on shore & walked from
the S. end to the center. Shot
9 Rock Wrens which were the
most abundant birds seen.
3 House Finches were shot &
2 Titmice. One of Sparrow
Hawks was seen & several
Gulls. Cloustonia abundant,
Abalones, Callistoma, Acorn
& Key hole limet. No
echinoderms or barnacles
seen. The marine fauna
seemed to be characterized by
what it lacked. Only one
species of algae seen. Did you
fishes fairly common. Many
have been seen. Capt. caught
a box head from the

5
stem of the schooner. Most of
the island was covered with
lava fragments & 2 1/2 of cobble
stones. These were covered with
various lichens, most a
yellow species, one inch long & a
interesting deep red species.
R. shrubby, coniferous in bloom.
Two species of cacti, a long
tree-like form & a globular
species a inch or so in diameter
with long red fruit. Vegetation
very scanty, some fox-tail
grass. About a dozen Angora
Goats were seen. I shot
3 of them. Found hills of a large ^{cricket} ~~cricket~~ ^{cricket}
under some stones.
6- Left Guadalupe this
morning. No Goats seen.
A few flying fish & a porpoise
observed.
7- Head calm until about

2.00 P.M. Several Boon, yellow
billed Tropic birds & Martin's
came about, One or two
Skinkers or Fulmars seen.
8. Day beautiful. Wind
very light. No birds or fish seen.
Bek. for the balance of morning left
about 11.00 of Guadalupe
were not seen south of that
point.

9. Saw one Phalarope, many
small flying-fish about
4 inches long. Several schools
of black fish, (small whales).

Latitude about 22° Wind light.

10 Shot a Man of War Bird this
A.M., *Fregata aquila*, it was
a juv. ♂, stomach contains
carcass of a flying fish.
Got 2 species of malopha & one
large fly. Saw many small

7
flying fish. Wind light northerly.
11 Tropic Man of War Birds common
this A.M. Caught two flying fish,
Halargyllus evolans, during the
night which flew on deck. Have
seen this species commonly since
leaving Guadalupe. A large white
Booby seen this P.M. A large
school of porpoise played about
the bow this morning. Wind
light northerly. Made about 105
knots.

12 Many *Sula cyparissus* &
Tropic birds seen, also auklets
& petrels. Few flying fish. A
school of Skippers *Sarda chilensis*
played about the boats bow but
would not take the hook. Read
when in the morning but
struck strong NW wind in
evening. Passed Clarion Is.

about 12 P.M. 5 miles to
westward.

13 Fair W.W. Wind; heavy
7/knots all day, but
the morning when we
were about 30 miles off
Clarion Isl. we were visit-
ed by many *Sula cyanops*
but secured only one ad. g.
although others were shot
over the water. Many Man
birds were also seen and a
small auklet like bird.
The Man o' War bird contained
mandibles of a great & some
green algae. The Booby was
empty. In the P.M. ran
into a large school of
porpoise for sample number.
Harpoon a ♂ & make a sketch.
The porpoise were accompan-

9

by large flocks of *Sula cyanops*
probably to secure part of the
fish which the porpoise
were in fishing. A red-
billed Tropic bird came over
the schooner. Very few
flying-fish seen.

14 Fair flying fish came
about during the night.
One large *Eudelia volitans*
secured, others all *Halargyris*
volitans. Boobys, Red-billed
Tropic Birds, Frigates, etc.
common. Wind fair, 180 knots.

15 Showers frequent during
the night accompanied by
lightning. Calm in the
morning with light S.W.
breeze. No flying fish seen.
A small species of skink
seen with silver spots on back.

Snout from mouth 100 mm
 Width of " 140
 Snout to pectoral 310
 " " pelvic 240
 " " anal 220
 " " 1st dorsal 460
 " " 2nd " 440
 Depth of Body 250
 Height of Pelvic 100
 Base " 70
 Tail up, lobe 440 mm
 Low " 200
 Hz Pectoral 360
 Base " 110
 1/2 1st dorsal 240
 Base " 170

Caudal notched near
 end of 1st lobe.
 Pectorals rounded at
 tip no falcate. Coloration
 dark, lighter at tip of fins.
 Above body dark, blackish,
 whitish about mouth & midline
 of snout, also between ventral
 anal, dark on rest of
 underparts.

11
 Snout from mouth 100 mm
 Width of " 140
 Snout to pectoral 310
 " " pelvic 240
 " " anal 220
 " " 1st dorsal 460
 " " 2nd " 440
 Depth of Body 250
 Height of Pelvic 100
 Base " 70
 I have found a new species
 of *Carcharias* today.
 Stomach empty, mouth
 contained broken part of a
 shell which looked like a
 paper nautilus. Caught a
 great many other small
 during the cruise which
 prevailed all day. One large
Ctenophore *Bore* taken
 many small water spiders

or *Hydrobatidae* caught
with the hand net, also a
egg flying fish about 1 cm. long.
A school of Albacore #1
Porpoise seen this AM.
17 Dead calum with a few
shrimps. *Sula* & *Phaethon*
Petrel etc observed. A large
sword-fish seen. No medusa
or *Hydrobatidae* seen today.
On the 14th we got to an island in
which the land was dark-colored
like the wings & which had a
dark pectoral band. appeared
larger than *S. argus* sp. Sharks
caught on 16 had 3 *Remora*
remora attached.

18 Specially, no progress

19 Same as above

20 " " "

21 Very calm, caught

several *Porpita* *paucis* also
many medusae visited by
many terns from
Clifferton.

22³ Arrived at Clifferton about
noon. Caught a large *Remora*
a horse mackerel as we
entered the anchorage. Many
porpoise of a species different
from the one we caught
there seen, they were smaller
with very short beaks
snouts. One seen washed
up on the beach as we
landed. Went ashore in
the afternoon & remained
during the next day.
As we landed the whole
island was covered with
large orange land crabs that
lived in holes in the coral.

sand. The crabs living upon
the dead birds are any reptiles
they can find. No vegetation
is found upon the land
because of these crabs. Two
coconut palms & a small
garden has been planted by
the Co. but these had to be
guarded from the crabs.
Two species of boobies were
mixed through the whole
island & held possession
everywhere except upon
a few islands in the lagoon.
The white species much
the commoner. The birds
were paired, i.e., white of
a few were sitting on a
single egg only 2 sets of 2
were secured. Mr. Arnold
the Vice President of the Co.

15
who was visiting the islands
informed us that only
one egg was reared the other
being left to starve because
of the extreme voracity of
the young. Two distinct
notes were heard a short
sharp whistle & a loud
quack. The eggs are fed by
their parents for nearly a
year & until they are as large as
the adult. They are fed by
disgorged fish & are continually
seen attempting to open the
parent's mouth with their
bills. Two species of
terns were abundant, a
brown & a white-bellied forked
tail species. The latter were
breeding in countless hundreds
on the small islands in the

Lagoon. At one end of the island the eggs were just being incubated, at the other end they were already hatched the egg being covered with tiny dusky streaks down middle like a egg guard. Only one or two set of two were seen at the other being of one. For the eggs of the brown sp. were taken from this colony, where they were seen about the edge of the island but only three were nesting. One white tern was seen at night on a house but not secured. A wing was secured from Mr. Shepherd. A single swallow was seen but not secured.

The rock was inhabited by boobies, Brown Terns & Masked Boobies.

The egg boobies are covered at 1st with white down when about grown they are purplish brownish with bluish bill & feet. They take their first lesson in swimming in the lagoon & also in catching fish. About 12 Eumeces were taken at the rock, they were abundant on the sides of the rock, in the sunlight, they would sit on small pools of water catch in quickly. We knocked them down with our hats. There were none on the shady side of the island. Several small Gobiids were shot in the

Many small bonitos
seen, no flying fish.
Sterna fuliginosa occasional
Fregata & Phaeothorax common
seen. Gulls sp. 3. Clif. common.

Clifferton

Faggon - Robins. 20 feet on
roof. Lactophrys - 20 ft.
different in fin shape from
any description.

Puffers -

Bulls. *Sterna fuliginosa*

Centrus stolidus

Sten. dom. sand

Shallow

Dark

Gulls white

" Br.

Fregata aquila

30: Saw pair of Widgeon, Cays
Saw a red flying fish

Dec. 21st

Caught many *Pterodroma*
most of them were accompanied
by a small fish which
stayed just beneath them.
Puffins, common, two
seen on very small
and large white rimmed
species.

3 Caught two small *Thunnus*
thynnus both *Gutierrez*
many small fish, a small
flying-fish & a sharp snout
species. The *Thunnus* was
same as large one caught
at Clifferton. The smaller
fish was *Lactophrys* but
species. It is black. *Thunnus* has
a black spot on its side.

4. Caught with a few others
Capt. caught two just after flying
fish were seen.

1 Blk gill net 8:05

6 Wink gill net 8:10 in green
tulle.

7 A black fish net 8:15 in green
tulle about 100 ft long & 10 ft deep
in water.

8 Rainy, net 8:20 in green tulle.

7.5 lb. beautiful. Several
interesting specimens a great
quantity of the same and some

Thynnus, also some
Sardinia, a few small ones
and some small ones. A few
small ones and some small ones.

Like a small one about 10 ft long
and about 10 ft deep.

For the same reason, catching
by this net. Caught a small

Thynnus solichus caught a

very large one 10 ft long, badly
injured but very good.

some preservation. I had
the 1st of the same name
seen, the first seen since
leaving Marion Is.

Curly pepper.

Wh. Sea Bill pink, yellow
tip. Gular pinkish, dusky
purplish, iris yellow.

Feet in a blackish, with
white spots, very pale.

Lower eyelid.

Bill black, coral red.

Bill black, coral red.

Bill black, coral red.

Bill black, coral red.

Bill black, coral red.



Lee (C. C.) reached
 in the morning. A
 Swind. landed about 9 A.M.
 Along the shore slopes
 the base of the cliff could
 be at places, the top being
 somewhat level. The common
 plant was - low shrubby &
 vine like grass with green
 linear-lanceolate flowers. A few
 bushes of a high grass on the
 slope, in which the red-foot
 boobies nested. A succulent
 like vine with large, like
 fruit was also seen. A
 species of shrubby, leguminous
Distichlis grew on the rocks
 of the cliff, & a few water lilies
 down. Insects were not
 many, a few dragon flies
 & crickets, & a few beetles.

under stones & ^{large} grayish flies. A
 somewhat enlarged & slender long
 & 24, which was found under a dead
 fish. Dead ones were common.
 Lizards, greenish with white spots, and
 covered with yellow spots, were
 common along the shore. A
 small scorpion with a long
 tail, which was found in the
 rocks by the sea, was common
 in the tide pools. Sharks
 were many & abundant. A
 large brown shark like fish.
 Birds were everywhere. The
 commonest bird was
 black geese, & a few white
 geese. A few *Phalaropus*
 & a ground dove were seen. A
 heron, a catbird, & a few
 sparrows. Several *Spizella*
 were seen on the shore.

mistake & town badly. The
commonest sea bird, were
Fregata, egg were found every
where & single, but in some
smaller white. *Sula* nest
also as the Fregata, but they
has just begin some only
sitting on one egg & the other
nesting site. The red-foot

Sula was much rarer & was
only in the bushes on a few
of sticks. If marked or found
white. In eggs. Birds will
not sit ^{on such a stick} sitting, but in egg
only one egg in nest. Along
the shore a slate colored red
Gull common. One egg secured
on top of black rock. A tern
shot, one sandpiper seen.

Ants seen occasionally, seen
Stenomatus fuliginosus on land,
but none on land.

Many cactus, the old nests
seen all except probably belong
to the common. Island
thickly covered on top with
brush, leafless. Top of island
a layer of soft sandstone, 6 in
or 50 ft thick, below this a
layer of harder columnar 300
or thick & underlying this
again a layer of loose sandstone
about as thick as that. In top
many small pebbles & pieces
of white like bird bones in
the pits & clay. Took three
Procyon richardsoni, seen on
the rocks. The
island is covered with
a low water, standing
in the heart. One of the
smaller islands, a small
island, like still

Three species of *Thalassia*
Two of which are the same
one very minute & a
short thick one. The other
is a great common one
with long, *Cragmus* like
Spirals. The other is a
very small one.

[illegible]

17- Stayed on the schooner today.
Capt returned with about ten
fur seal, a large green turtle
& several Mysterica, one yellow
one. A single shearwaters egg
taken from a cave. Caught
7 sharks on the schooner, One ♀
with 16 large eggs. Two ♂ eggs

preserved. They differ much
in proportions from adults. The
mouth is much narrower &
snout much longer. Dorsal
fin & pectorals of about same size
which in adult pectoral much
longer. All rest of fin strong
of a one took a large squid &
several fish, a large blenny but
fairly decayed, a red perch &
a blue black fish. Caught some
brown algae floating by with a
species of greyish crab attached. Caught
2 *Gym. sardina* off the lough,
also many small shrimps.
Cape has now shot about 25 seal
off Wexham.

13. Went with the Cape sealing.
Started in at the 11 o'clock &
worked round north to the
west. Killed about 18 seal and

Compositae

Atriplex & *Artemisia*.

large number of flying
 insects, some of which were
 very large. The flies were
 very numerous, and some
 of them were very large.
 The flies were very numerous,
 and some of them were very
 large. The flies were very
 numerous, and some of them
 were very large. The flies
 were very numerous, and some
 of them were very large.

and

21 Started for Alhambra
 wind, S.E. strong, day clear.
 A few birds seen in the
 following day.

22. A fine day, wind S.E. light.
 Caught a great many
 of *Phaenocarpa* in the
 field. Also a few *Phaenocarpa*.

23. A fine day, wind S.E. light.
 Caught a great many
 of *Phaenocarpa* in the
 field. Also a few *Phaenocarpa*.
 Caught a great many
 of *Phaenocarpa* in the
 field. Also a few *Phaenocarpa*.
 Caught a great many
 of *Phaenocarpa* in the
 field. Also a few *Phaenocarpa*.

24. A fine day, wind S.E. light.
 Caught a great many
 of *Phaenocarpa* in the
 field. Also a few *Phaenocarpa*.
 Caught a great many
 of *Phaenocarpa* in the
 field. Also a few *Phaenocarpa*.

Croton

Croton alundans,
abundant, a white
bark, brown, dry
leaves, yellow, white

Sium

Sium abundans,
abundant, common

Souchus

Souchus abundans,
abundant, common

Souchus abundans,
abundant, common

Souchus abundans,
abundant, common

Souchus abundans,
abundant, common

Souchus abundans,
abundant, common

Souchus abundans,
abundant, common

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Souchus abundans,
abundant, common

Souchus abundans,
abundant, common

Souchus abundans,
abundant, common

Jan

covered all rocks. Many
 com. the same as before. 31
 Long on the west side of
 Bartmouth all day. Hear
 small made herding
 impossible. The island appen-
 ring barren, a great deal of
 made up of broken lava
 stream, and then a few
 leafless bushes. One or two
 North end quite steep. There
 drinker came on this side.
 Whole of the seal seen at
 head, Stregata & Spheniscus
 (Cecanorhinus), (Cecanorhinus) &
 spheniscus common about
 ship.

Georgina fuliginosa

"
 " *fuliginosa*

63

Jan

Macropygia nigripennis

" (young)

" (young)

" affinis

Macropygia nigripennis

Macropygia nigripennis

That acrobasis seen in the

the shot & Ruffian from

from of Lake & several

seen seen from the island

was seen, which was

brutally, and was

seen by the water

common. One seen

seen seen about

seen seen about

seen seen about

seen seen about

seen seen about

seen seen about

seen seen about

5: Went ashore today about
10 AM. Lost shot gun in
leaving surf on account of
boat capsizing. Shot
B. flightless cormorant.
Many seen in water &
on land doubling the
number, but in water
often perched. From
condition of wings, tests
the birds are now in long
jackets, many seen.
A few seen abundant,
A few seen. *Stella pinnatifida*
common on cliffs. A small
frigate seen entirely black
with yellowish. *Merula*
common on land, many
seen but none secured.
But the *Merula* seen
also on the shore. Several

Leucites gracilis seen near
shore, *Leucites* *fuliginosa*
seen, seemed darker than
those observed at Lyman
Cove. Several water seen
on rock in firm beach.
Merula *galegagallina*
abundant on rocks.
A few seen, also seen on
rocks & cliffs. A few
bottles seen on cliffs.
On boat, seen on cliffs.
On land, seen on cliffs.
Many, noted. *Stella*
seen with many on the
harbor, seen on cliffs.
A few seen on cliffs.
Went ashore to look for
shotgun & a few seen.
A few high, but none
seen on cliffs.

[illegible]

Rain

then attacks, the wind
jacks the bird in the air and
as he goes in with to any
the other would seize his legs
A hawk disabled by such
was soon overhauled by
being a single bird of
which I was not at all
chance, the other
and the first danger was
on the island & by shooting
the wild birds breed the other
ing but the first is more
inside the whole island
during the first year,
Two days seen on the
yesterday by the same
and the second one is
seen now in any way
of the island, and the
of the island in the

usual between the two
all around, the many flying
fish about the water
make a very good
on the water, the
which the other birds
begin to see.

But I suppose the
breakfast but I suppose
I did not work, I am
to get with the
age of the birds, which, I
to. We could not get
water hole in the island
but a great many small
Georgian only one
large black bird, Bird
under a boat in the
middle of the island
blackish. I shot the
one, several of the birds

Agave saw some large ones
probably nesting on the cliffs
near water hole. Sula Nebou
shunk out on cliffs. Penguin
everywhere. Palm trees
fringed the shore. A few
small palms. Insects
seen. A lot of birds.

A lot of birds, many on
rocks. A few were seen
Butler's. Many were seen
Insects were seen. A few
Saw several small birds
black with white spots.

Grounded alone, looking
-back with large fish.
common in hills. A few
scattered along cliffs, a few
seen further inland.

10 W. Gull. Many in the water
along the shore, a few on the rocks.

~~Jan~~

and the water was very
blue. A blue sea. A few
white birds. A few on the shore.
A few on the shore. A few
white birds. A few on the shore.
A few on the shore. A few
white birds. A few on the shore.

A few on the shore. A few
white birds. A few on the shore.
A few on the shore. A few
white birds. A few on the shore.
A few on the shore. A few
white birds. A few on the shore.

A few on the shore. A few
white birds. A few on the shore.
A few on the shore. A few
white birds. A few on the shore.
A few on the shore. A few
white birds. A few on the shore.

at least a large number of
mammals, birds, and
fishes, and a few
4 *Dipodomys deserti* and *Dipodomys*
and *Perognathus*, and a few
the diving birds and a few
gulls, and a few
and a few
the main body of the

Many will come soon
and offer their gifts and
give to the children in the

1970-1971
This can be explained by

This plant brought up some
 old sheep heads. The legs
 are in the middle of the

about 1400 long
in an area of about

sent large quantities
from this place to
New York & other ports.

[Faint handwritten text at the bottom of the page]

No certifiable flycatchers
seen. Many old turtle
gills found but no track
or fresh signs. They probably
only come down in spring
like the whaler. Poplars
abundant here, where,

15 Skirted for the transport
of our baggage, and the
spruce timber a large
manure mound, *Salix*
capitata seen and was
high & the shape of the
as before. *Platanus* common.

Heliconia abundant in
thick open forest,
Scrubland, etc. etc. etc.
+ *Asplenium*, *Streplosia*.

Chapman Whitehead

18. $\frac{1}{2}$ lb. for a small, medium sized
 and $\frac{1}{4}$ lb. for a small child.

8

Seawater seen, a few
Herring & small fish
also seen. A large
hale headed Albatross shot
outside.

[illegible]

just below black light.
School chased by a single
Sat 16 King this evening
at end of line, Lower Federal
Lakes in lake.

Caught 20 miles from
the shore, but great haul.
A full bushel of the
very few, mackerel-like.
Also this species,
(yellow) mackerel-like,
4 or 2 red asters, small
green castles, large
pieces of fish, etc. etc. etc.
A small lot of the same.

99

Feb-

Many p. Started a new
 orating. In the
 do not a full dent,
 a small
 - making the for (Only
 the necessary

crater were *Pygmaefolius*
Myrsine. In the
& *Sesuvium* at 3000 ft.
Several *Mosses* in the
creeks. Saw several *Butter*
flies. Distribution of
vegetation is not quite
different than at
Agua Caliente. The
area begins at about 1500 ft.
Both species of *Cactus*, *Opuntia*
Cylindropuntia also to top of
Mts. Very abundant at
3000 ft on lava slope. *Opuntia*
laevigata like the
one at Agua Caliente, small at
base of Mt. Cerro very
large. While the one at
which are much smaller.
These grassy areas to trees 1500
highest at 1500 ft to top.

151

Feb-

The higher, open, the trees
from base to 1500 ft.
few plants found
at base. Many to summit
at least 6 species of trees
growing to 2000 ft. *Ferns*
are common. *Polypodium*
lucidum at 1500 ft. *Polypodium*
lucidum is mostly to summit
few *Adiantum* in
open in light conditions
at top. Top of mountain covered
with dense growth of *Grass*
pass about 15 ft high, this
same grass found on side of
1500 ft. The top of the
the grass are found while
the *Opuntia* bushes are
at base of Mt. Cerro. The *Opuntia*
at base of Mt. Cerro are found on top of sides
about 1500 ft high. 5 mi across.

[illegible]

[illegible]

that last year he saw the
Penguin and Wilson's
Agassiz says no evidence
either submergence or
elevation on islands, just
north of ^{Jervis Hill} the cliffs
sinking into sea about 20 ft
deep, 24 miles back about
1/2 mile inland & having con-
siderable projection so
that you can see shore, &
bottom of water has
sunken into sea at its foot
shutting off eastern 1/2.

10:00 AM, remained all night
just south of Cape Horn. Then
made Elizabeth Bay but
became calm and no
anchorage could be made
saw a snowy Plover flying
a little in the morning.

a red-bellied Booby seen. The
wind was E, Bay was
calm with a fair amount of
vegetation to the beach no
green land flows visible.
The vegetation was dry,
with few plants to be seen,
heavy timber lower
elevation with some of
grass, ferns & shrubs. Lightly
sandy then in fact had
much & covering. A number
of penguins on the shore
on the slope.

11:00 AM close along shore in
not fair anchorage, but
found some, *Sula nebouxi*
Leucurus, *Leucurus*, *Puffinus*
Occanites abundant. Mangrove
have appeared to be in
loss, very little vegetation.

on the lava flows. In evening
could see the eastern crater
nicely, with a glow. Only two
visible, close together with
slight rim, two fissures in flow
and below them like lava tube.
Steam issued in a column
a surging mass of lava flow
up & dropped back in crater
continually. A streak of
luminous clouds reached
from crater down into side
to near sea, perhaps made
by a burning lava flow which
was hidden by a ridge.

12th Day near the falls all day
The clouds showing have ceased
but at 10 AM. fog came
in from the sea, the
shore line visible. Anchored
off west side of bay in 14 fms.

white coral sand bottom.
I caught several *Paralabrax*
humeralis at anchorage. Saw
another Oct. 10th & 11th fly
by the vessel.

At anchorage saw
anchorage, land in a small
bay on inner side. Shore
low, made up of fairly
much lava flow, in
places much with scattered
vegetation. Parikly green
bush most abundant.
Particular wh. flower very
abundant, *Costaria* &
rather rare. *Alphitonia*
abundant, a small tree with
large fruit, trunk 15 ft. diam.
without any opening
in it, none in bloom.
A species *Cereus*, small

x quant com. Patches of
 vegetation limited to
 ash covered spots, where the
 lava is dotted with small
 holes, and of which fragments
 were blown, soil rich, in
 rainy season ground covered
 with moss. No large
 common or bare lava
 near beach, Grass & the
 vegetation land, Palolo
 occasional. In places
 salt ponds with rustles,
 grass & salt grass, Cyper.
 large or other of grass,
 In grassland, Desmanthus
 abundant, in bloom, in
 ponds. Land birds rare,
 No swarms of birds seen
 inland, shot 9, Heterotis
 found about Mangroves,

In one salt pond shot 3
 + clams, 2 were molting
 had no juveniles, second in
 stage, corals, Saw a *Gallinula*
gambata in same pond, also
 eight *Podilymbus podiceps*. In
 mangroves shot 2 red
 but only with 1. Saw 1
 + up to with 1 in different
 little or notes near shore,
 in under cover but
 not wild to be taken.
Agelaius common along
 shore, rare inland. In
 mangroves seen, not seen
 there many evidence, no
 shot, that they ever
 occur here.

Went to beach in P. M., at
 same place we landed
 in morning. No *Gallinula*

seen, Saw several others
 of same at mouth of
 Mangrove Swamp. Saw
 one of the yellow spotted
 black fish also. Last evening
 I walked away &
 showed my west side of
 Mt. Plainly, whole slope
 covered from
 which first stream was
 coming, no lava stream
 visible, I issued along
 to base of Mt.

* From Ridge way array
 west of Mt. Hill I construct
 the above tree marking a
 mangrove form, Camellia
 pallidus the species seen
 the original fringing lichen
 can still be seen because mangroves
 were probably the 1st vegetation.

Carutivastus

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G. virgatus

G. intermedia

G. scaberrimus

C. pallidus

C. pallidus

C. pallidus

that supported birds & the
1st species to arrive would
live in mangrove swam.
The series is not without
breaks & maybe entirely
wrong although it appears
that the two genera came
from a common ancestor.
There may be species on Cook
Island which approaches
nearer the ancestral form
or some that fills up the
breaks. The Hawaiian Islands
may show some connection
or related groups.

Albemarle being the ^{highest}
& largest & supposed therefore to
be the oldest island would
contain the ancestral form
provided they have not become
extinct & been replaced or

121

Feb-14

migrated to other islands.
In Oresomius there is a
gradual evolution in species
beginning with the form on
Albemarle & ending with
the Hood Isl. form. This
is supposing the evolution
proceeded from the smallest
billed form & went toward the
larger, it may have been
the reverse or it may
begin in the middle of the
series & proceed both ways.
This can always be determined
by 1st finding the nearest
allied species from main
or other island groups &
starting this as an ancestral
form & working up to the
specialized forms.

longer than the pinnus, shorter than ^{the} pinnus.

60 Sting Ray, two spines, ^{Leurus?}

61 *Evothites viridis*

62 *Caranx caballus*

63 *Chaetodon* near *nigricinctus*

64 *Ofisthoneura libertate*

- 39 *Scarus* sp
 40 *Archosargus foveolatus*
 41 *Eupomacentrus* sp
 42 *Abudefduf* (near *saxatilis*)
 43 *Myxaluna* (near this genus)
 44 *Anisotremus interruptus*
 45 " near *scopularis*
 46 *Sciaenops ocellatus*
 47 *Calamus taurinus*
 48 *Neomacris* (near *colorado*)
 49 *Spheryides annulatus*
 50 *Chilomycterus*
 51 *Antennarius*, near *tigris*,
 52 *Branchiostoma* (near *elongata*)
 53 *Haemulon* *eschscholtzii*
 54 *Eucinostomus*
 55 *Scorpaenopsis* (8 dor. sp)
 56 *Stenotomus* sp
 57 *Holocentrus ruber*
 58 *Sphyrna* sp
 59 *Thunnus* sp - 70 pectoral

- 60 *Paranthias pacificus* Red.
 61 *Sebastes*, near *tyris*, prof. dif.
 62 *Stenotomus* *neglectus*?
 63 *Cratius agassizii*
 64 *Paralabrax* *anacanthus*?
 65 *Hiodon* *holocanthus*?
 66 *Scorpaenopsis maculata*
 67 *Macrurus* sp, coloration & scale counts diff.
 68 *Carolatus princeps*
 69 *Platyphrys constellatus*?
 70 *Maxillaria* *shuter*, coloration diff.
 71 *Syngnathus*
 72 *Holocanthus* *passer*
 73 *Pomacentrus* *clavicornis*
 74 *Parus* *maculatus*?
 75 *Parus* *atlanticus*, 3 months
 76 *Callinectes* *indiana*
 77 *Uca* *insularum*
 78 *Alacostomus*, near *gillii*
 79 *Mugil* *thoburni*

- 1 Charcarhynchus sp
- 2 Halcyonides volans (?) (Dist)
- 3 Epocetes volitans
- 4 Lanius thymus
- 5 Lanius sordidus
- 6 Ovides setosus
- 7 Pachynotus sp
- 8 Ostracidae (Genus not given)
- 9 Harpe diptera (?) (Dist)
- 10 Zenthis alia
- 11 Epinephelus labriformis
- 12 Zenthis triostegus
- 13 Euleptorhynchus sp (Dist)
- 14 Nomius coloratus (Thysalia)
- 15 Mola mola
- 16 Cryptophana bippurus (?)
- 17 Remora remora
- 18 Myctophora olfax
- 19 (Yellow) ant
- 20 Lysichiton albus
- 21 Pontinus

- Ammonia
2. Lanius
3. Epocetes
4. Lanius
5. Lanius
6. Ovides
7. Pachynotus
8. Ostracidae
9. Harpe
10. Zenthis
11. Epinephelus
12. Zenthis
13. Euleptorhynchus
14. Nomius
15. Mola
16. Cryptophana
17. Remora
18. Myctophora
19. (Yellow) ant
20. Lysichiton
21. Pontinus